

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**In The Claims:**

1-2. (Canceled)

3. (AMENDED) Printhead according to claim 1 ~~26~~, ~~characterized in that it also comprises further comprising~~ a basin (76) adjacent to said slot (102) and that each of said chambers (74) is fluidly connected with said basin (76) through said plurality of elementary ducts (72).

4. (AMENDED) Printhead according to claim 1 ~~25~~, ~~characterized in that~~ wherein each of said elementary ducts (72) has a substantially rectangular section.

5. (AMENDED) Printhead according to claim 4, ~~characterized in that~~ wherein said substantially rectangular section has a first depth (f) and a width (g), and that said width (g) is between 3 and 15  $\mu\text{m}$ .

6. (AMENDED) Printhead according to claim 1 ~~25~~, ~~characterized in that~~ wherein each of said chambers (74) comprises a tank (63) fluidly connected with said plurality of elementary ducts (72).

7. (AMENDED) Printhead according to claim 1 ~~25~~, ~~characterized in that~~ wherein said chamber (74) has a second depth (d) independent of said first depth (f).

8. (AMENDED) Printhead according to claim 5, ~~characterized in that~~ wherein said first depth (f) is between 10 and 100  $\mu\text{m}$ .

9. (AMENDED) Printhead according to claim 2 ~~3~~, ~~characterized in that~~ wherein said basin (76) has a third depth (c) different from said first depth (f).

10. (AMENDED) Printhead according to claim 9, ~~characterized in that~~ wherein said third depth (c) is between 20 and 100  $\mu\text{m}$ .

11. (AMENDED) Printhead according to claim 9, ~~characterized in that~~ wherein said first depth (f) is between 5 and 20  $\mu\text{m}$ .

12. (AMENDED) Printhead according to claim 1 ~~25~~, ~~characterized in that~~ wherein said die (61) is substituted by a die (183'') without slot, and a plurality of chambers (74'') is located along at least one side of said die (183'') and that each of said chambers (74'') is fluidly connected with said reservoir (103) through a plurality of elementary ducts (72'').

13. (AMENDED) Printhead according to claim 1 ~~25~~, ~~characterized in that~~ wherein a plurality of nozzles (56') is contained in a flat cable (130) having an upper face (113) and a lower face (114), and that a plurality of elementary ducts (72') is produced on said lower face (114) of said flat cable (130).

14. (CANCELED)

15. (AMENDED) Printhead according to claim 12, ~~characterized in that~~ wherein a plurality of nozzles (56'') is contained in a flat cable (180'') having an upper face (115) and a lower face (116), and that a plurality of elementary ducts (72'') is produced on said lower face (116) of said flat cable (180'').

16. (AMENDED) Printhead according to claim 15, ~~characterized in that~~ wherein a plurality of chambers (74'') is produced on said lower face (116) of said flat cable (180).

17-18. (Canceled)

19. (AMENDED) Thermal ink jet printhead (40) comprising a reservoir (103) containing ink (142), a die (61), a slot (102) etched in said die (61) and fluidly connected with said reservoir (103), and a plurality of ejectors (73) each of which in turn comprises a nozzle (56) having an outer edge (66), and a chamber (74), said ink (142) forming a meniscus (54) on said outer edge (66), and each of said ejectors (73) presenting a time constant  $\tau$ , ~~characterized in that~~ wherein each of said chambers (74) is fluidly connected with said slot (102) through a plurality of elementary ducts (72) each having width  $g$  determined by means of the formula

$$g = \sqrt{12 * v * \tau}$$

where  $\nu$  is the viscosity of the ink and  $\tau$  is the time constant assigned to each of said ejectors (73), and the number  $N$  of said elementary ducts (72) is determined by means of the formula

$$N = (R')^2 * \frac{C_m}{4L'}$$

where  $R'$  and  $L'$  represent respectively the hydraulic resistance and the hydraulic inertance of a single elementary duct (72), and  $C_m$  represents the hydraulic compliance of said meniscus (54), whereby said meniscus (54) presents a critical damping with whatever value is assigned to  $\tau$ .

20. (AMENDED) Printhead according to claim 19 ~~characterized in that~~ wherein said chamber (74) comprises a bottom (67), and that said elementary ducts (72) are fluidly connected with said chamber (74) through said bottom (67).

21. (AMENDED) Printhead according to claim 19, ~~characterized in that~~ wherein each of said elementary ducts (72) has a substantially rectangular section.

22. (AMENDED) Printhead according to claim 21, ~~characterized in that~~ wherein said substantially rectangular section has a depth (f) and a width (g), and that said width (g) is between 3 and 15  $\mu\text{m}$ .

23. (AMENDED) Printhead according to claim 19, ~~characterized in that~~ wherein each of said chambers (74) comprises a tank (63) fluidly connected with said plurality of elementary ducts (72).

24. (AMENDED) Printhead according to claim 22, ~~characterized in that~~ wherein said depth (f) is between 5 and 100  $\mu\text{m}$ .

25. (NEW) Thermal ink jet printhead (40) comprising a reservoir (103) suitable for containing ink, a die (61), a slot (102) etched in said die (61) and in fluid communication with said reservoir (103), and a plurality of ejectors (73), each of which in turn comprises a nozzle (56) and a chamber (74) having a perimeter and a bottom (67), wherein said chamber (74) is bounded on the perimeter by continuous walls (68).

26. (NEW) Printhead according to claim 25, wherein each of said chambers (74) is fluidly connected with said slot (102) through a plurality of elementary ducts (72).